

Title (en)

MEDICAL DEVICE FOR DETECTING AT LEAST ONE ANALYTE IN A BODY FLUID

Title (de)

MEDIZINISCHE VORRICHTUNG ZUR DETEKTION VON MINDESTENS EINEM ANALYTEN IN EINER KÖRPERFLÜSSIGKEIT

Title (fr)

DISPOSITIF MÉDICAL POUR DÉTECTER AU MOINS UN ANALYTE DANS UN FLUIDE CORPOREL

Publication

EP 3202323 A1 20170809 (EN)

Application

EP 16154468 A 20160205

Priority

EP 16154468 A 20160205

Abstract (en)

A medical device (110) for detecting at least one analyte in a body fluid is disclosed. The medical device (110) comprises: #c at least one analyte sensor (112) having an insertable portion (114) adapted for at least partially being inserted into a body tissue of a user, #c at least one insertion cannula (116), wherein the analyte sensor (112) at least partially is placed inside the insertion cannula (116); #c at least one housing (118), wherein the housing (118) comprises at least one sensor compartment (120), wherein the sensor compartment (120) forms a sealed compartment (122) receiving at least the insertable portion (114) of the analyte sensor (112), wherein the sealed compartment (122) comprises at least one detachable upper cap (124) and at least one detachable lower cap (126), wherein the detachable lower cap (126) is configured for detachment before insertion, thereby opening the insertable portion (114) for insertion, wherein the insertion cannula (116) is attached to the detachable upper cap (124), wherein the detachable upper cap (124) is configured for detachment after insertion, thereby removing the insertion cannula (116); and #c at least one electronics unit (134), wherein the analyte sensor (112) is operably connected to the electronics unit (134), wherein the electronics unit (134) comprises at least one interconnect device (136) with at least one electronic component (142) attached thereto, wherein the interconnect device (136) fully or partially surrounds the housing (118).

IPC 8 full level

A61B 5/145 (2006.01); **A61B 5/1486** (2006.01)

CPC (source: EP US)

A61B 5/14503 (2013.01 - EP US); **A61B 5/14532** (2013.01 - EP US); **A61B 5/14546** (2013.01 - US); **A61B 5/1473** (2013.01 - US); **A61B 5/14865** (2013.01 - EP US); **A61B 5/6849** (2013.01 - EP US); **B08B 5/00** (2013.01 - US); **B08B 7/0035** (2013.01 - US); **A61B 5/688** (2013.01 - US); **A61B 2560/063** (2013.01 - EP US); **A61B 2562/166** (2013.01 - EP US); **A61B 2562/242** (2013.01 - EP US)

Citation (applicant)

- US 5413690 A 19950509 - KOST KENT M [US], et al
- US 5762770 A 19980609 - PRITCHARD G JOHN [US], et al
- US 5798031 A 19980825 - CHARLTON STEVEN C [US], et al
- US 6129823 A 20001010 - HUGHES GRAHAM JOHN [GB], et al
- US 2005013731 A1 20050120 - BURKE DAVID W [US], et al
- US 6360888 B1 20020326 - MCIVOR K COLLIN [US], et al
- US 2008242962 A1 20081002 - ROESICKE BERND [DE], et al
- DE 954712 C 19561220 - LICENTIA GMBH
- DE 20020566 U1 20020124 - FILTEC GMBH [DE]
- US 2012197222 A1 20120802 - DONNAY MANUEL LUIS [US], et al
- WO 2010091028 A1 20100812 - ABBOTT DIABETES CARE INC [US], et al
- WO 2014018928 A1 20140130 - ABBOTT DIABETES CARE INC [US]
- EP 2982303 A1 20160210 - ROCHE DIAGNOSTICS GMBH [DE], et al

Citation (search report)

- [X] US 2008255440 A1 20081016 - EILERSEN MICHAEL [DK], et al
- [X] US 2015080684 A1 20150319 - FREY STEPHAN-MICHAEL [DE], et al
- [X] US 2014066730 A1 20140306 - ROESICKE BERND [DE], et al
- [A] US 2012190952 A1 20120726 - STAFFORD GARY ASHLEY [US]
- [A] US 2007073129 A1 20070329 - SHAH RAJIV [US], et al

Cited by

US11751778B2; CN112105299A; JP2021520917A; WO2019197519A1; WO2019239258A1; US11759133B2; US11944433B2; US11759132B2; US11903706B2; US11903705B2; US11911156B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3202323 A1 20170809; EP 3202323 B1 20210714; CN 108601564 A 20180928; CN 108601564 B 20210720; CY 1126120 T1 20231115; DK 3909506 T3 20230814; EP 3909506 A1 20211117; EP 3909506 B1 20230607; EP 4233719 A2 20230830; EP 4233719 A3 20230906; EP 4233720 A2 20230830; EP 4233720 A3 20230906; EP 4233721 A2 20230830; EP 4233721 A3 20230906; ES 2886024 T3 20211216; ES 2952014 T3 20231026; FI 3909506 T3 20230808; HR P20230788 T1 20231027; HU E056062 T2 20220128; HU E062591 T2 20231128; LT 3909506 T 20230825; PL 3909506 T3 20231106; PT 3909506 T 20230731; RS 64385 B1 20230831; SI 3909506 T1 20230929; US 11759132 B2 20230919; US 11903705 B2 20240220; US 11903706 B2 20240220; US 11911156 B2 20240227; US 2019021636 A1 20190124; US 2023371856 A1 20231123; US 2023371857 A1 20231123; US 2023380733 A1 20231130; WO 2017134211 A1 20170810

DOCDB simple family (application)

EP 16154468 A 20160205; CN 201780009934 A 20170203; CY 231100375 T 20230728; DK 21175139 T 20160205; EP 2017052360 W 20170203; EP 21175139 A 20160205; EP 23175596 A 20160205; EP 23175598 A 20160205; EP 23175609 A 20160205;

ES 16154468 T 20160205; ES 21175139 T 20160205; FI 21175139 T 20160205; HR P20230788 T 20160205; HU E16154468 A 20160205;
HU E21175139 A 20160205; LT 21175139 T 20160205; PL 21175139 T 20160205; PT 21175139 T 20160205; RS P20230584 A 20160205;
SI 201631728 T 20160205; US 201716069016 A 20170203; US 202318228947 A 20230801; US 202318229237 A 20230802;
US 202318229315 A 20230802